

Title: Minutes: SSC-3 working group, September 2005
Number: T10/05-356r0
Date: September 14, 2005
Time: 1:00-5:00 pm
Location: Vancouver, BC
Secretary: Paul Entzel, Quantum

Agenda

- 1. Opening remarks and introductions [Peterson]**
- 2. Approval of agenda (05-269r0) [Peterson]**
- 3. Approval of meeting minutes (05-183r0) [Peterson]**
- 4. Review of old action items [Entzel]**
- 5. Old business**
 - 5.1. SSC-3: Physical device model (05-049r2) [Suhler]**
 - 5.2. SPC-4/SSC-3: ASC/ASCQ for Medium Thread Failure (05-262r1) [Marks]**
 - 5.3. SSC-3: Device Statistics log page for SSC-3 and Tape Diagnostic Data log page (05-213r1) [Marks]**
- 6. New Business**
 - 6.1. SSC-3: TapeAlert Enhancements (05-154r2) [Banther]**
 - 6.2. SSC-3: Standardize processing of ERASE command with LONG=0 (05-320r0) [Entzel]**
 - 6.3. SSC-3 Reinstate definition of Transfer Length field for WRITE FILEMARKS (05-334r0) [Banther]**
 - 6.4. Feedback on Tape Alert (& specifically 05-154r1) (05-339r0) [Cummings]**
- 7. Next meeting requirements**
- 8. Review of new action items**
- 9. Adjournment**

Attendance

SSC-3 Working Group Attendance Report - September 2005

| Name | S | Organization |
|---------------------|----|------------------------|
| Mr. Noud Snelder | V | BDT |
| Mr. Kevin Marks | P | Dell, Inc. |
| Mr. Ralph O. Weber | P | ENDL Texas |
| Mr. Michael Banther | V | Hewlett Packard Co. |
| Mr. David Peterson | P | McDATA |
| Mr. Paul Entzel | P | Quantum Corp. |
| Dr. Paul Suhler | A | Quantum Corp. |
| Mr. Erich Oetting | A# | Sun Microsystems, Inc. |
| Mr. Roger Cummings | P | Symantec |

9 People Present

Status Key: P - Principal
 A, A# - Alternate
 AV - Advisory Member
 L - Liaison
 V - Visitor

Results of Meeting

1. Opening remarks and introductions [Peterson]

Dave Peterson called the meeting to order at 1:00.

2. Approval of agenda (05-269r0) [Peterson]

Paul Suhler moved to accept the agenda as modified. Rodger Cummings seconded. The motion passed without objection or abstention.

3. Approval of meeting minutes (05-183r0) [Peterson]

Dave Peterson moved that the meeting minutes from the last meeting be approved. Paul Suhler seconded,

4. Review of old action items [Entzel]

- 4.1. Dave Peterson: Bring in a White Paper on the value added with Explicit Command Set. Carryover.
- 4.2. Dave Peterson: Review initiator vs I_T nexus throughout document. Carryover.
- 4.3. Michael Banther: Bring in proposal to improve handling of cleaning and firmware upgrade cartridges. Carryover
- 4.4. Michael Banther: Bring in proposal for Requested Recovery log page from ADC. Carryover.
- 4.5. Michael Banther: Bring in proposal for Device Statistics log page from ADC. Closed, see 05-153.
- 4.6. Paul Entzel: produce a proposal to have short erase lay down an EOD at the current

position. Closed, 05-320.

- 4.7. Michael Banther: proposal against the “Cleaning Required” parameter of Sequential Access Device log page to make it consistent with TapeAlert and ADC eventually. Carryover.
- 4.8. Michael Banther to revise and post 05-140r1. Carryover.
- 4.9. Kevin Butt to bring proposal following direction related to clean behavior. Carryover.
- 4.10. Michael Banther to revise 05-175r2 and post. Complete.
- 4.11. Michael Banther to revise 05-154r1 and post. Complete.
- 4.12. Kevin Marks to modify 05-262r0 and post. Complete.
- 4.13. Kevin Butt to add cleaning bits from 05-213 to his proposal and find log page for them. Carryover.
- 4.14. Kevin Marks to modify 05-213r0 and post. Complete.

5. Old business

5.1. SSC-3: Physical device model (05-049r2) [Suhler]

Deferred.

5.2. SPC-4/SSC-3: ASC/ASCQ for Medium Thread Failure (05-262r1) [Marks]

Kevin Marks presented 05-262r1 with changes suggested by the working group at the last meeting. It was noted that Ralph Weber may select different values for the ASC and ASCQ codes when incorporated into SPC-4 based on actions from other working groups. Michael Banther suggested that the new entry in table 2 be changed to “Medium failed to thread in the process of mounting or de-mounting” to make use of terms already existing in the standard.

Michael Banther argued that the term “thread” is not defined in the standard and will be open for misinterpretation based on the use model that Kevin has expressed verbally. Paul Entzel suggested that a dropped leader and a failure to pull the tape through the path may both send the same status as currently written, and the clarification would help to guarantee the desired results. Kevin agreed to modify the proposal and bring it to the next meeting.

5.3. SSC-3: Device Statistics log page for SSC-3 and Tape Diagnostic Data log page (05-213r1) [Marks]

Kevin Marks presented a draft of 05-213r2 which had not been posted. The group reviewed the changes since the last revision. Kevin asked of the new log page that is derived from the ADC page should have the same page code and the group suggested it should.

The requirement of not resetting the parameters on resets and power cycles was discussed, and Kevin made a change of terms from “power cycle” to “power-on reset event”. Michael pointed out that some of the parameters should mention if the count is for attempts or completed operations. He also asked that a clarification be included for the term “emergency/reset eject”.

Michael suggested that the “(0)” be removed from the DU field to avoid letter ballot comments. Michael suggested that the MEDIUM TYPE field in the Medium Type parameter structure be moved to byte 3 to leave room for possibly adding the library medium type code into the structure also.

The group suggested that Kevin add some clarification as to when an entry should be made in the Tape Diagnostics Data log page.

The group worked on the wording for the parameter ordering and numbering paragraph and Mark agreed to work on it some more. Michael asked that the MEDIUM TYPE field be moved to byte 7 of the event structure to leave room for the dual medium type codes.

Kevin will create a new revision of the proposal before the Austin meeting.

6. New Business

6.1. SSC-3: TapeAlert Enhancements (05-154r2) [Banther]

Michael Banther presented 05-154r2, reviewing each change made to the proposal since revision 1. The impact of allowing LOG SELECT commands to clear the tape alert flags for all initiators was discussed. Paul Entzel and Roger Cummings were uncomfortable with allowing LOG SELECT commands to clear the flags for all initiators. Michael reviewed several other issues that he had identified with editor’s notes in the proposal and came to consensus on most of them. Michael will produce a new revision of the proposal based on the discussion for the next meeting.

6.2. SSC-3: Standardize processing of ERASE command with LONG=0 (05-320r0) [Entzel]

Paul Entzel presented 05-320r1. Kevin Butt’s email commenting on the definition of erase was presented and his suggested change was accepted. Michael pointed out that the ERASE(6) descriptions did not specify a location. Several other typographical errors were pointed out and corrected. Paul Entzel moved that 05-320r0 as modified be accepted for inclusion in SSC-3. Erich Oetting seconded. The motion passed without dissention or abstention.

6.3. SSC-3 Reinstate definition of Transfer Length field for WRITE FILEMARKS (05-334r0) [Banther]

Michael Banther presented his proposal to add the text that was inadvertently removed from the WRITE FILEMARKS command and change the name of the field from TRANSFER LENGTH to FILEMARK COUNT. Dave Peterson mentioned that he already added the text back in, but had kept the field name of TRANSFER LENGTH. A straw poll determined that nobody else was uncomfortable with the change. Michael Banther moved that 05-334r0 be approved for inclusion. Paul Suhler seconded. The motion passed without dissention or abstention.

6.4. Feedback on Tape Alert (& specifically 05-154r1) (05-339r0) [Cummings]

Roger Cummings presented 05-339r0 containing feedback from Symantec on proposal 05-154. Roger took an action item to bring in a proposal dealing with the cleaning class of tape alert flags and possibly to add clarification to the Predictive Failure flag. The group worked on the definitions of the TapeAlert flag severity values again.

7. Next meeting requirements

8. Review of new action items

- 8.1. Dave Peterson: Incorporate 05-334r0 into SSC-3.
- 8.2. Kevin Marks: update and post a new revision of 05-262 based on discussion item 5.2.
- 8.3. Kevin Marks: update and post a new revision of 05-213 based on discussion item 5.3.
- 8.4. Roger Cummings: produce a proposal to describe the events that shall activate and deactivate the cleaning related tape alert flags and to add a second flag for predictive failure of the medium.
- 8.5. Paul Entzel: update and post a new revision of 05-320 based on discussion item 6.3.
- 8.6. Dave Peterson: Incorporate 05-320r1 into SSC-3.
- 8.7. Michael Banther: update and port a new revision of 05-154 based on discussion item 6.1

9. Adjournment

Michael Banther moved that the meeting be adjourned. Paul Suhler seconded. The meeting was adjourned at 5:03 PM.